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AMENDMENTS TO THE CLAIMS

- 1. (Previously Presented) An optical system for forming a real image from source light from a source, comprising:
 - (a) at least one converging element for converging a portion of the source light so as to form the real image when the optical system is in use; and
 - (b) a broadband reflector-polarizer located in an optical path between said at least one converging element and the real image and opposite the source when the optical system is in use
 - wherein said at least one converging element comprises said broadband reflectorpolarizer in a cylindrical configuration.
- (Withdrawn) An optical system according to claim 1, further comprising a circular polarizer located in said optical path between the source and said broadband polarizer when the optical system is in use.
- (Withdrawn) An optical system according to claim 28, wherein said circular polarizer comprises a linear polarizer and a quarter wave retarder.
- 4. (Withdrawn) An optical system according to claim 3, wherein said broadband reflector-polarizer has a first bandwidth response and said first quarter wave retarder has a second bandwidth response that is substantially matched to said first bandwidth of said broadband reflector-polarizer.
- (Withdrawn) An optical system according to claim 3, wherein said quarter wave retarder comprises liquid crystal polymers.
- 6. (Previously Presented) An optical system according to claim 26, further comprising a beamsplitter located in said optical path between the source and the real image when the system is in use.

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- 7. (Withdrawn) An optical system according to claim 1, further comprising a direct-view light extinguisher located in said optical path between said broadband reflector-polarizer and the real image when the optical system is in use.
- 8. (Previously Presented) An optical system according to claim 26, wherein said converging element comprises a beamsplitter.
- 9. (Previously Presented) An optical system according to claim 26, wherein said converging element comprises said broadband reflector-polarizer.
- 10. (Withdrawn) An optical system according to claim 26, wherein said converging element is a lens.
- 11. (Canceled)
- 12. (Previously Presented) An optical system according to claim 26, wherein said converging element is a concave reflector.
- 13. (Previously Presented) An optical system according to claim 26, wherein said broadband reflector-polarizer comprises a cholesteric liquid crystal structure.
- 14. (Previously Presented) An optical system according to claim 26, wherein said broadband reflector-polarizer has a transmissive/reflectance efficiency of at least 60%.
- 15. (Original) An optical system according to claim 14, wherein said transmissive/reflectance efficiency is at least 90%.
- 16. (Withdrawn) An optical system according to claim 26, further comprising a wide view film located in said optical path between said broadband reflector-polarizer and the real image when the optical system is in use.
- 17. (Withdrawn) An optical system for forming a real image from source light from a source, comprising:

- (a) a direct-view light extinguisher comprising a quarter wave retarder having a first bandwidth response;
- (b) a reflector-polarizer located in an optical path between said direct-view extinguisher and the source when the optical system is in use, said reflector-polarizer having a second bandwidth response that is substantially matched to said first bandwidth response of said quarter wave retarder; and
- (c) at least one converging element configured to converge a portion of the source light so as to form the real image when the optical system is in use.
- 18. (Withdrawn) An optical system according to claim 17, wherein said quarter wave retarder comprises liquid crystal polymers.
- 19. (Withdrawn) An optical system according to claim 17, wherein said reflector-polarizer comprises a dual brightness enhancement film.
- 20. (Withdrawn) An optical system according to claim 17, wherein said reflector-polarizer comprises a broadband reflector-polarizer.
- 21. (Withdrawn) An optical system according to claim 17, further comprising a wide view film located between said reflector-polarizer and the real image when the optical system is in use.
- 22. (Withdrawn) An optical system for forming a real image from source light from a source, comprising:
 - (a) a reflector-polarizer located between the source and the real image when the optical system is in use;
 - (b) at least one converging element for converging a portion of the source light so as to form the real image when the optical system is in use; and
 - (c) a wide-view film located between said reflector-polarizer and the real image when the optical system is in use.

- 23. (Withdrawn) An optical system according to claim 22, wherein said reflector-polarizer comprises a dual brightness enhancement film.
- 24. (Withdrawn) An optical system according to claim 22, wherein said reflector-polarizer comprises a broadband polarizer.
- 25. (Withdrawn) An optical system according to claim 22, wherein said wide-view film is a compensation film.
- 26. (Currently Amended) A system for projecting a real floating image into free space, comprising:
 - (a) at least one image source operatively configured to provide a source image; and
 - (b) an optical system located a distance from said at least one image source image, said optical system comprising:
 - (i) at least one converging element; and
 - (ji) a broadband reflector-polarizer;
 - said converging element being operatively configured, and said distance being selected, so that, when said at least one image source provides said source image, said optical system forms a real floating image of said source image in free space such that a human viewer visually perceives the entirety of said real floating image when the viewer is properly positioned at a vantage point relative to the system.
- 27. (Withdrawn) An optical system according to claim 26, further comprising a direct-view extinguisher located in said optical path between said broadband reflector-polarizer and said real image for extinguishing a second portion of said source light.
- 28. (Withdrawn) An optical system according to claim 27, further comprising a circular polarizer located in said optical path between said source and said broadband reflector-polarizer.